

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method, comprising:
determining at a storage device that a current media status has changed; and
transmitting an asynchronous message of a first type to a host system as a result of the determination, wherein the first type of asynchronous message can also be transmitted for a reason other than a current media status change.
2. (original) The method of claim 1, wherein the asynchronous message is associated with a serial advanced technology attachment interface.
3. (original) The method of claim 2, wherein the asynchronous message is associated with a set device bits packet.
4. (original) The method of claim 1, wherein the determining is performed while the storage device is in a lower-power state.
5. (original) The method of claim 4, wherein the reduced power state is a sleep state.
6. (original) The method of claim 1, further comprising:
receiving from the host system a command to adjust a power state associated with the storage device.

7. (original) The method of claim 1, further comprising:

receiving from the host system a query for a current media status; and

transmitting to the host system an indication of the current media status.

8. (original) The method of claim 7, wherein the current media status indicates at least one of: (i) an absence of a removable storage media, and (ii) a presence of a removable storage media.

9. (original) The method of claim 1, wherein the storage device comprises at least one of: (i) a compact disc drive, (ii) a digital versatile disk drive, (iii) a tape drive, and (iv) a removable hard disk drive.

10. (currently amended) An apparatus, comprising:

a detection unit to determine a change in a current media status at a storage device; and

an interface unit to transmit an asynchronous message of a first type to a host system as a result of the determination, wherein the first type of asynchronous message can also be transmitted for a reason other than a current media status change.

11. (original) The apparatus of claim 10, wherein the interface unit is a serial advanced technology attachment interface.

12. (currently amended) An apparatus, comprising:

a storage medium having stored thereon instructions that when executed by a machine result in the following:

determining at a storage device that a current media status has changed, and

transmitting an asynchronous message of a first type to a host system as a result of the determination, wherein the first type asynchronous message can also be transmitted for a reason other than a current media status change.

13. (original) The apparatus of claim 12, wherein execution of the instructions further results in:

receiving from the host system a query for a current media status, and
transmitting to the host system an indication of the current media status.

14. (original) The apparatus of claim 13, wherein the current media status indicates at least one of: (i) an absence of a removable storage media, and (ii) a presence of a removable storage media.

15. (currently amended) A method, comprising:

receiving at a host system an asynchronous message of a first type from a storage device as a result of a current media status change, wherein the first type asynchronous message can also be received for a reason other than a current media status change; and

arranging for a power state associated with the storage device to be adjusted as a result of the asynchronous message.

16. (original) The method of claim 15, further comprising:

transmitting to the storage device a query for a current media status; and
receiving from the storage device an indication of the current media status.

17. (original) The method of claim 15, wherein the arranging comprises:

transmitting to the storage device a command to adjust the power state.

18. (original) The method of claim 15, wherein the asynchronous message is associated with a serial advanced technology attachment interface.

19. (original) The method of claim 18, wherein the asynchronous message is associated with a set device bits packet.

20. (original) The method of claim 19, further comprising:
generating an interrupt to a storage device driver in response to the asynchronous message.

21. (currently amended) An apparatus, comprising:
a storage medium having stored thereon instructions that when executed by a machine result in the following:
receiving at a host system an asynchronous message of a first type from a storage device as a result of a current media status change, wherein the first type of asynchronous message can also be received for a reason other than a current media status change, and
arranging for a power state associated with the storage device to be adjusted as a result of the asynchronous message.

22. (original) The apparatus of claim 21, wherein execution of the instructions further results in:

transmitting to the storage device a query for a current media status, and
receiving from the storage device an indication of the current media status.

23. (original) The apparatus of claim 22, wherein the current media status indicates at least one of: (i) an absence of a removable storage media, and (ii) a presence of a removable storage media.

24. (currently amended) A system, comprising:

a host processor; and

a disk drive, wherein the disk drive is to transmit an asynchronous message of a first type to the host processor indicating that a current disk status has changed, wherein the first type of asynchronous message can also be transmitted for a reason other than a change in the current disk status.

25. (original) The system of claim 24, wherein a power state associated with the disk drive is adjusted as a result of the asynchronous message.

26. (currently amended) A storage device driver method, comprising:

receiving at a storage device driver an asynchronous notification indicating that a current media status associated with a storage device has changed;

determining a current media status in response to the received indication; ~~and~~

~~arranging for the current media status to be provided to an operating system~~

caching the current media status;

receiving a synchronous poll request from an operating system; and

responding to the synchronous poll request in accordance with the cached current media status .

27-28. (canceled)

29. (original) A storage device driver apparatus, comprising:
a storage medium having stored thereon instructions that when executed by a machine result in the following:
receiving at a storage device driver an asynchronous notification indicating that a current media status associated with a storage device has changed,
determining a current media status in response to the received indication, ~~and~~
~~arranging for the current media status to be provided to an operating system~~
caching the current media status,
receiving a synchronous poll request from an operating system, and
responding to the synchronous poll request in accordance with the cached current media status .

30-37. (canceled)